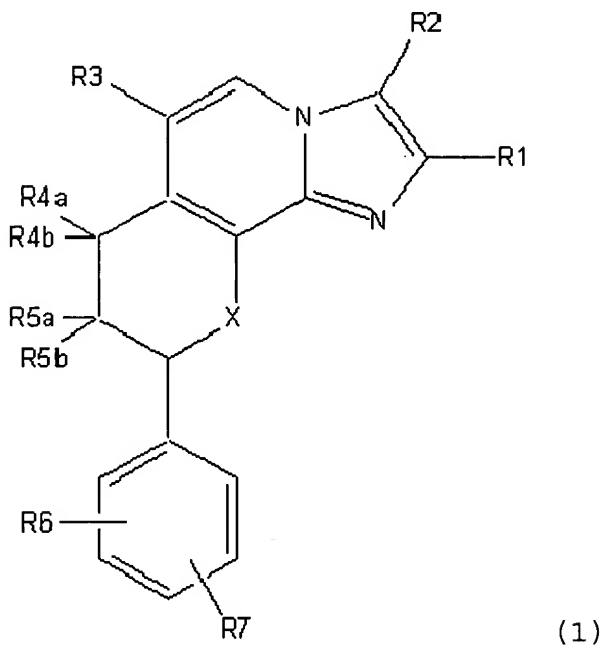


Appendix A

Claim Amendments

1. -14. (Canceled)

15. (New) A compound of the formula 1,



in which

R1 is methyl,

R2 is methyl,

R3 is hydrogen,

one of the substituents R4a and R4b is hydrogen and the other is

1-4C-alkoxy or 1-4C-alkoxy-1-4C-alkoxy,

R5a is the radical -OR',

R5b is hydrogen,

R6 is hydrogen,

R7 is hydrogen and

X is O (oxygen) or NH,

and where

R' is selected from the group consisting of

-C(O)-NR₈R₉,

-C(O)-alk-NR₈R₉,

-C(O)-alk-C(O)-NR₈R₉,

-P(O)(OH)₂,

-S(O)₂NR₈R₉,

-C(O)-R₈,

-C(O)-C₆H₃R₁₀R₁₁,

-C(O)-OR₈,

-C(O)-alk-C(O)-R₈,

-C(O)-alk-C(O)-OR₈,

-C(O)-C(O)-R₈,

-C(O)-C(O)-OR₈ and

-CH₂-OR₈,

where

alk is 1-7C-alkylene,

R₈ is hydrogen, 1-10C-alkyl or 1-4C-alkyl substituted by
halogen, carboxyl, hydroxyl, sulfo (-SO₃H), sulfamoyl

(-SO₂NH₂), carbamoyl (-CONH₂), 1-4C-alkoxy or 1-4C-alkoxycarbonyl,
R₉ is hydrogen or 1-4C-alkyl,
R₁₀ is hydrogen, halogen, nitro, 1-4C-alkyl, 1-4C-alkoxy, 1-4C-alkoxycarbonyl, 1-4C-alkoxycarbonylamino, 1-4C-alkoxy-1-4C-alkoxycarbonylamino or trifluoromethyl and
R₁₁ is hydrogen, halogen, 1-4C-alkyl or 1-4C-alkoxy.
or a hydrate, solvate, salt, hydrate of a salt or solvate of a salt thereof.

16. (New) A compound as claimed in claim 15,
in which
R₁ is methyl,
R₂ is methyl,
R₃ is hydrogen,
one of the substituents R_{4a} and R_{4b} is hydrogen and the other is
1-4C-alkoxy or 1-4C-alkoxy-1-4C-alkoxy,
R_{5a} is the radical -OR',
R_{5b} is hydrogen,
R₆ is hydrogen,
R₇ is hydrogen and
X is O (oxygen) or NH,
and where

R' is selected from the group consisting of

-C(O)-NR₈R₉,
-C(O)-alk-NR₈R₉,
-C(O)-R₈,
-C(O)-C₆H₃R₁₀R₁₁,
-C(O)-OR₈,
-C(O)-alk-C(O)-OR₈, and
-C(O)-C(O)-OR₈

where

alk is 1-4C-alkylene,

R₈ is hydrogen, 1-4C-alkyl, 1-4C-alkyl substituted by 1-4C-alkoxy or menthyl,

R₉ is hydrogen or 1-4C-alkyl,

R₁₀ is hydrogen, halogen, nitro, 1-4C-alkyl, 1-4C-alkoxy, 1-4C-alkoxycarbonyl, or trifluoromethyl and

R₁₁ is hydrogen or halogen,

or a hydrate, solvate, salt, hydrate of a salt or solvate of a salt thereof.

17. (New) A compound as claimed in claim 15,

in which

R₁ is methyl,

R₂ is methyl,

R3 is hydrogen,

one of the substituents R4a and R4b is hydrogen and the other is
methoxyethoxy,

R5a is the radical -OR',

R5b is hydrogen,

R6 is hydrogen,

R7 is hydrogen and

X is NH,

and where

R' is selected from the group consisting of

-C(O)-NR8R9,

-C(O)-alk-NR8R9,

-C(O)-R8,

-C(O)-C₆H₃R10R11,

-C(O)-OR8,

-C(O)-alk-C(O)-OR8, and

-C(O)-C(O)-OR8

where

alk is 1-4C-alkylene,

R8 is hydrogen, 1-4C-alkyl, 1-4C-alkyl substituted by 1-4C-
alkoxy or menthyl,

R9 is hydrogen or 1-4C-alkyl,

R10 is hydrogen, halogen, nitro, 1-4C-alkyl, 1-4C-alkoxy, 1-4C-alkoxycarbonyl, or trifluoromethyl and

R11 is hydrogen or halogen,

or a hydrate, solvate, salt, hydrate of a salt or solvate of a salt thereof.

18. (New) A compound as claimed in claim 15,

in which

R1 is methyl,

R2 is methyl,

R3 is hydrogen,

one of the substituents R4a and R4b is hydrogen and the other is methoxyethoxy,

R5a is the radical -OR',

R5b is hydrogen,

R6 is hydrogen,

R7 is hydrogen and

X is NH,

and where

R' is selected from the group consisting of

-C(O)-alk-NR8R9,

-C(O)-R8,

-C(O)-OR8,

-C(O)-alk-C(O)-OR₈, and

-C(O)-C(O)-OR₈

where

alk is 1-4C-alkylene,

R₈ is hydrogen, 1-4C-alkyl, 1-4C-alkyl substituted by 1-4C-alkoxy or menthyl,

R₉ is hydrogen or 1-4C-alkyl,

or a hydrate, solvate, salt, hydrate of a salt or solvate of a salt thereof.

19. (New) A compound as claimed in claim 15,

in which

R₁ is methyl,

R₂ is methyl,

R₃ is hydrogen,

one of the substituents R_{4a} and R_{4b} is hydrogen and the other is methoxyethoxy,

R_{5a} is the radical -OR',

R_{5b} is hydrogen,

R₆ is hydrogen,

R₇ is hydrogen and

X is NH,

and where

R' is selected from the group consisting of

-C(O)-alk-NR⁸R⁹,

-C(O)-R⁸,

where

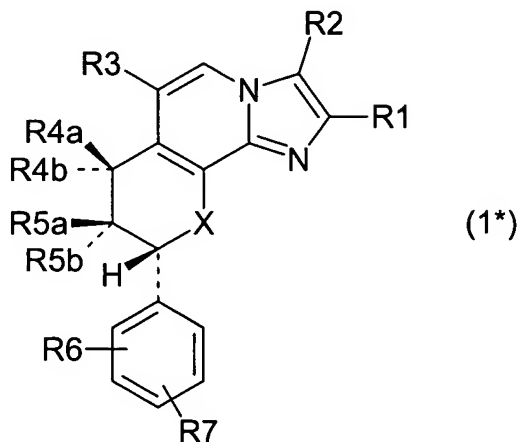
alk is 1-4C-alkylene,

R⁸ is 1-4C-alkyl or 1-4C-alkyl substituted by 1-4C-alkoxy,

R⁹ is hydrogen or 1-4C-alkyl,

or a hydrate, solvate, salt, hydrate of a salt or solvate of a salt thereof.

20. (New) A compound as claimed in claim 15, having the formula 1*



in which

R¹ is methyl,

R² is methyl,

R³ is hydrogen,

one of the substituents R4a and R4b is hydrogen and the other is

1-4C-alkoxy or 1-4C-alkoxy-1-4C-alkoxy,

R5a is the radical -OR',

R5b is hydrogen,

R6 is hydrogen,

R7 is hydrogen and

X is O (oxygen) or NH,

and where

R' is selected from the group consisting of

-C(O)-NR8R9,

-C(O)-alk-NR8R9,

-C(O)-R8,

-C(O)-C₆H₃R10R11,

-C(O)-OR8,

-C(O)-alk-C(O)-OR8, and

-C(O)-C(O)-OR8

where

alk is 1-4C-alkylene,

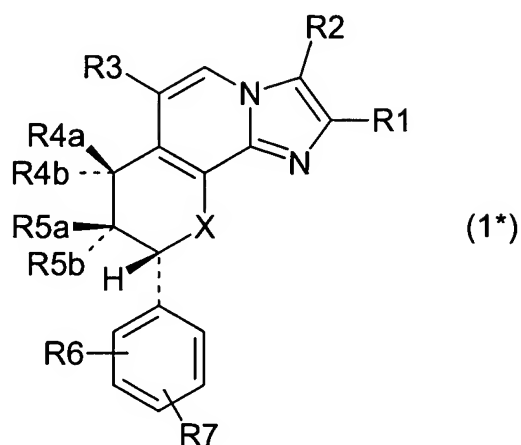
R8 is hydrogen, 1-4C-alkyl, 1-4C-alkyl substituted by 1-4C-alkoxy or menthyl,

R9 is hydrogen or 1-4C-alkyl,

R10 is hydrogen, halogen, nitro, 1-4C-alkyl, 1-4C-alkoxy, 1-4C-alkoxycarbonyl, or trifluoromethyl and

R11 is hydrogen or halogen,
or a hydrate, solvate, salt, hydrate of a salt or solvate of a
salt thereof.

21. (New) A compound as claimed in claim 15, which has the
formula 1*



in which

R1 is methyl,

R2 is methyl,

R3 is hydrogen,

one of the substituents R4a and R4b is hydrogen and the other is
methoxyethoxy,

R5a is the radical -OR',

R5b is hydrogen,

R6 is hydrogen,

R7 is hydrogen and

X is NH,

and where

R' is selected from the group consisting of

-C(O)-NR₈R₉,

-C(O)-alk-NR₈R₉,

-C(O)-R₈,

-C(O)-C₆H₃R₁₀R₁₁,

-C(O)-OR₈,

-C(O)-alk-C(O)-OR₈, and

-C(O)-C(O)-OR₈

where

alk is 1-4C-alkylene,

R₈ is hydrogen, 1-4C-alkyl, 1-4C-alkyl substituted by 1-4C-alkoxy or menthyl,

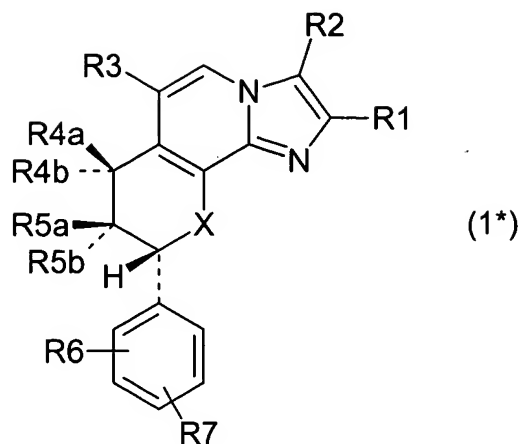
R₉ is hydrogen or 1-4C-alkyl,

R₁₀ is hydrogen, halogen, nitro, 1-4C-alkyl, 1-4C-alkoxy, 1-4C-alkoxycarbonyl, or trifluoromethyl and

R₁₁ is hydrogen or halogen,

or a hydrate, solvate, salt, hydrate of a salt or solvate of a salt thereof.

22. (New) A compound as claimed in claim 15, which has the formula 1*



in which

R1 is methyl,

R2 is methyl,

R3 is hydrogen,

one of the substituents R4a and R4b is hydrogen and the other is
methoxyethoxy,

R5a is the radical -OR',

R5b is hydrogen,

R6 is hydrogen,

R7 is hydrogen and

X is NH,

and where

R' is selected from the group consisting of

-C(O)-alk-NR₈R₉,

-C(O)-R₈,

-C(O)-OR₈,

-C(O)-alk-C(O)-OR₈, and

-C(O)-C(O)-OR₈

where

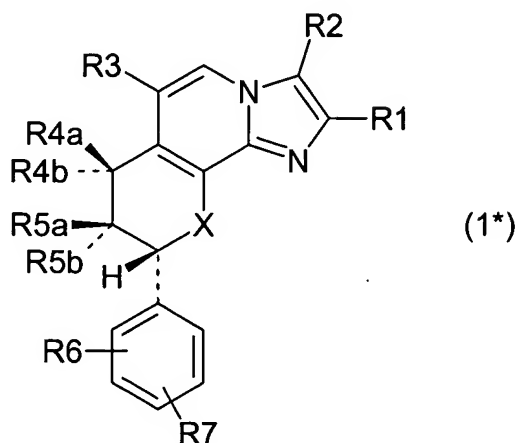
alk is 1-4C-alkylene,

R₈ is hydrogen, 1-4C-alkyl, 1-4C-alkyl substituted by 1-4C-alkoxy or menthyl,

R₉ is hydrogen or 1-4C-alkyl,

or a hydrate, solvate, salt, hydrate of a salt or solvate of a salt thereof.

23. (New) A compound as claimed in claim 15, which has the formula 1*



in which

R₁ is methyl,

R₂ is methyl,

R₃ is hydrogen,

one of the substituents R4a and R4b is hydrogen and the other is methoxyethoxy,

R5a is the radical -OR',

R5b is hydrogen,

R6 is hydrogen,

R7 is hydrogen and

X is NH,

and where

R' is selected from the group consisting of

-C(O)-alk-NR8R9,

-C(O)-R8,

where

alk is 1-4C-alkylene,

R8 is 1-4C-alkyl or 1-4C-alkyl substituted by 1-4C-alkoxy,

R9 is hydrogen or 1-4C-alkyl,

or a hydrate, solvate, salt, hydrate of a salt or solvate of a salt thereof.

24. (New) A compound which is (7R,8R,9R)-7-(2-Methoxyethoxy)-2,3-dimethyl-8-(N,N-dimethylaminomethyl-carbonyloxy)-9-phenyl-7,8,9,10-tetrahydroimidazo[1,2-h][1,7]naphthyridine, or a hydrate, solvate, salt, hydrate of a salt or solvate of a salt thereof.

25. (New) A pharmaceutical composition comprising a compound of claim 15 and/or a pharmacologically tolerable hydrate, solvate, salt, hydrate of a salt or solvate of a salt thereof together with customary pharmaceutical excipients and/or vehicles.

26. (New) A pharmaceutical composition comprising (7R,8R,9R)-7-(2-Methoxyethoxy)-2,3-dimethyl-8-(N,N-dimethyl-aminomethyl-carbonyloxy)-9-phenyl-7,8,9,10-tetrahydroimidazo-[1,2-h][1,7]naphthyridine, and/or a pharmacologically tolerable hydrate, solvate, salt, hydrate of a salt or solvate of a salt thereof together with customary pharmaceutical excipients and/or vehicles.

27. (New) A method of treating a gastrointestinal illness caused by gastric acid in a patient comprising administering to a patient in need thereof a therapeutically effective amount of the compound as claimed in claim 15 and/or a pharmacologically tolerable hydrate, solvate, salt, hydrate of a salt or solvate of a salt thereof.

28. (New) A method of treating a gastrointestinal illness caused by gastric acid in a patient comprising administering to

a patient in need thereof a therapeutically effective amount of (7R,8R,9R)-7-(2-Methoxyethoxy)-2,3-dimethyl-8-(N,N-dimethyl-aminomethyl-carbonyloxy)-9-phenyl-7,8,9,10-tetrahydroimidazo-[1,2-h][1,7]naphthyridine and/or a pharmacologically tolerable hydrate, solvate, salt, hydrate of a salt or solvate of a salt thereof.

29. (New) The method according to claim 27, wherein the gastrointestinal illness caused by gastric acid is selected from the group consisting of gastric ulcer, duodenal ulcer, gastritis, hyperacidic functional gastropathy, medicament-related functional gastropathy, reflux esophagitis, Zollinger-Ellison syndrome, heartburn and peptic ulcer bleeding.

30. (New) The method according to claim 28, wherein the gastrointestinal illness caused by gastric acid is selected from the group consisting of gastric ulcer, duodenal ulcer, gastritis, hyperacidic functional gastropathy, medicament-related functional gastropathy, reflux esophagitis, Zollinger-Ellison syndrome, heartburn and peptic ulcer bleeding.